Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solving and Graphing Compound Inequalities**

**Graph the solution set of each compound inequality.**

1. m ≥ -5 and m < 3 2. s < 3 or s ≥ 1 3. w > -3 and w < 1

**  **

**Write a compound inequality for each solution set shown below.**

 

**Solve each compound inequality. Then graph the solution set.**

** **

6. 4m - 5 > 7 OR 4m - 5 < -9 7. y + 6 ≥ -1 AND y - 2 < 4

** **

8. 10 - 2p > 12 AND 7p < 4p + 9 9. 4 < 2x – 2 AND 2x – 2 ≤ 10

** **

10. 3n + 10 ≤ 13 OR 2n ≥ 5n – 12 11. -2x>12 AND 2x+5>7

** **

12. –x+12 < 14 AND 3(x +2) < 36 14, 3m – 9 + 5m > 5m – 3 OR 10m < 50